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Abstract (en)
[origin: WO2006005950A2] An isolator seal comprises a stator member (17) for location into the stator of rotating equipment and a rotor member (14) for location onto a rotary shaft of the rotating equipment. These two members provide respective adjacent surfaces (82/83) and a static shut-off device (81) engages both adjacent surfaces when the rotor member is static and disengages one or more of said surfaces when the rotor member is dynamic. In one aspect of the present invention at least one of said surfaces is inclined to the longitudinal axis at an angle greater or less than 90°. In a further aspect of the present invention the static shut-off device comprises a resilient annular sealing member (354) and an auxiliary member (357), movable between a first position, when the rotor member is static, at which said auxiliary member compresses said resilient annular member into engagement with both said surfaces, and a second position at which the compression on said resilient member is reduced, whereby the resilient annular member disengages one or more of said rotor and stator surfaces when the-rotor is dynamic.

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